

**EPA REGISTRATION NUMBER 82542-9 (Part 1)**

21



82542-9



009281367

United States



## Environmental Protection Agency

Office of Pesticide Programs (7505C)

Washington, DC 20460

## Notice of Supplemental Distribution of a Registered Pesticide Product

## Instructions

After a registrant has obtained final registration for the basic product, the registrant may then supplementally distribute his/her product. One form must be submitted for each distributor product and must be signed by the distributor involved. The basic registration number and the distributor company number must be shown.

If a registrant has a potential distributor who does not have a company number assigned, she/he should have the distributor apply, on letterhead stationery, to the Registration Division to have a number assigned prior to submitting this form to the agency.

This Notice of Supplemental Distribution must be submitted by the basic registrant. The completed form must have the concurrence and signature of both the registrant and the distributor.

EPA Registration Number of Product

82542-9

Distributor Company Number

84237

## Note: Do not submit distributor product labels

Name of Registered Product (basic product name accepted by EPA)

Tebuconazole 45 DF Fungicide

Distributor Product Name

Solera Tebuconazole 45 DF Fungicide

Name and Address of Distributor (Type; include ZIP code)

SOLERA ATO, LLC  
7364 E RED HAWK ST.  
MESA AZ 85207

## Read All Conditions Before Signing

1. The distributor product must have the same composition as the basic product.
2. The distributor product must be manufactured and packaged by the same person who manufactures and packages the registered basic product.
3. The labeling for the distributor product must bear the same claims as the basic product, provided, however, that specific claims may be deleted if by doing so, no other changes to the label are necessary.
4. The product must remain in the manufacturer's unbroken container.
5. The label must bear the EPA registration number of the basic product, followed by a hyphen and the distributor's company number.
6. Distributor product labels must bear the name and address of the distributor qualified by such terms as "packed for...", "distributed by..."; or "sold by..." to show that the name is not that of the manufacturer.
7. All conditions of the basic registration apply equally to distributor products. It is the responsibility of the basic registrant to see that all distributor labeling is kept in compliance with requirements placed on the basic product.

## Distributor

We intend to market our product under the Distributor Product Name specified above, subject to the conditions specified on this Notice.

Signature and Title of Distributor

PRESIDENT

Date

02/18/2009

## Registrant

I agree that the distributor named above may distribute and sell the Distributor Product specified above, subject to the conditions specified on this Notice.

Signature and Title of Registrant

CEO

Date

March 5, 2009

# Material to be added to an e-Jacket/Jacket

Reg. No. 82542-9

Description: Notice of Pesticide Registration D400556

1. ☒ Placement within the e-Jacket/jacket:

☒ Default: (chronological, top = newest)

☐ File Location: (PDF page number, i.e., "before page 45")

2. ☒ Send to Data Extraction contractors this material:

☒ Newly stamped accepted label

☐ Notification

☒ New CSF

☐ Other: \_\_\_\_\_

3. Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer's Name: ROBERT WESTIN

Phone: 703-978-6229 Division: RD/FB

Date: Feb 10, 2009





U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

**82542-9**

Date of Issuance:

**FEB 9 2009**

NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration  
(under FIFRA, as amended)

Term of Issuance:  
Conditional

Name of Pesticide Product:

**Tebuconazole 45 DF  
Fungicide**

Name and Address of Registrant (include ZIP Code):

**Source Dynamics, LLC  
10039 E. Troon North Drive  
Scottsdale, AZ 85262**

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

Page 1 of 3

Signature of Approving Official:

*Mary L. Waller*

Date:

*2/9/2009*

Mary L. Waller, Product Manager (21)  
Fungicide Branch, Registration Division (7505P)

2. Make the following changes to the label:

- a. In the list of ingredients change "**INERT INGREDIENTS**" to "**OTHER INGREDIENTS**"
- b. In the Spanish language warning change "...en detaile." to "...en detalle."
- c. At the bottom of the first page add "Produced for:" immediately above "Source Dynamics, LLC"
- d. Change the product registration number to "EPA Reg. No. 82542-9"
- e. In the section **HAZARDS TO HUMANS AND DOMESTIC ANIMALS** delete the sentence "Prolonged frequently repeated...in some individuals."
- f. In the section **ENVIRONMENTAL HAZARDS**:
  1. Change the first sentence to read "This pesticide is toxic to mammals, fish and aquatic invertebrates."
  2. Add the following paragraphs at the end of the section:

**"Ground Water Advisory:** Tebuconazole is known to leach through soil into ground under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

**Surface Water Advisory:** This product may contaminate water through drift of spray in wind. This product has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted within 48 hours."

- g. In the **AGRICULTURAL USE REQUIREMENTS** box change "...restricted entry interval (REI) of 12 hours." to "...restricted entry interval (REI). The REI for each crop is listed in the application directions associated with each crop."
- h. Under **GENERAL INFORMATION**:
  1. Change "Aerial application is not allowed on Long Island, New York." to "Do not apply by aerial application on Long Island, New York."
  2. In the subsection **Mixing** change "Add recommended amount...." To "Add specified amount...."

- i. In all of the boxes listing the directions for use change the header from **"RECOMMENDED APPLICATIONS"** to **"APPLICATION DIRECTIONS"**
- j. In the **APPLICATION DIRECTIONS** box for Cherry, Peach, etc. add "Restricted-entry interval (REI) = 5 days"
- k. In the **APPLICATION DIRECTIONS** box for Grape:
  1. Add "Restricted-entry interval (REI) = 12 hours"
  2. Change "GENEREAL USE DIRECTIONS" to "GENERAL USE DIRECTIONS"
- l. In the **APPLICATION DIRECTIONS** box for Banana and Plantain add "Restricted-entry interval (REI) = 12 hours"
3. You must submit an amendment or notification to comply with Pesticide Registration Notice 2007-4 by February 28, 2009.
4. Submit one copy of the revised final printed label for the record before the product is released for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A copy of the label stamped "Accepted with Comments" is enclosed for your records.

*Mary L. Waller*

Mary L. Waller  
Product Manager (21)  
Fungicide Branch  
Registration Division (7505P)

Enclosure:

Label stamped "Accepted with Comments"  
Product Chemistry Review DP358000 dated January 15, 2009  
Acute Toxicity Similarity Clinic Determination DP358002 dated January 7, 2009

# TEBUCONAZOLE 45 DF Fungicide

## ACTIVE INGREDIENT:

Tebuconazole:  $\alpha$ -[2-(4-chlorophenyl)ethyl]- $\alpha$ -(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol ..... 45.0% ✓

INERT INGREDIENTS: ..... 55.0%

TOTAL ..... 100.0%

**STOP – Read the label before use.**

**KEEP OUT OF REACH OF CHILDREN**

**WARNING**

**AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(TO THE USER: If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
If in eyes	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
If swallowed	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
If on skin or clothing	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
If inhaled	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>Note to Physician:</b> No specific antidote. Treat symptomatically. The compound does not cause any definite symptoms that would be diagnostic. Contact with the eyes may cause irritation.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For Emergency Medical Assistance, call the National Pesticide Information Center 1-800-858-7378.	

**Source Dynamics, LLC**  
10039 E. Troon North Drive  
Scottsdale, AZ 85262

**EPA Registration No. 84235-x**

**EPA Est. No.**

**Net Contents**

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated**

**FEB 9 2009**

**Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.**

82542-9

(6)

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### WARNING

Causes substantial but temporary eye injury. Harmful if swallowed, inhaled or absorbed through the skin. Prolonged frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes, and clothing. Avoid breathing spray mist.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):** Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA Chemical Resistant Category Selection Chart.

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

Remove and wash contaminated clothing before reuse. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENGINEERING CONTROLS STATEMENTS:** When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in WPS.

#### USER SAFETY RECOMMENDATIONS

**Users should:**

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to estuarine and marine invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.



### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

#### Pesticide Storage

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If container is leaking or material is spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with handling of this material. Dispose of pesticide as directed below. In spill or leak incidents, keep unauthorized people away.

#### Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

#### Container Disposal

Completely empty container into application equipment. Then dispose of liner in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### GENERAL INFORMATION

**Spray Volume:** Tebuconazole 45 DF may be applied in 50 gallons or more of spray solution per acre by ground spray equipment or in 15 gallons or more per acre by aircraft equipment except as noted under "REMARKS" for each crop. Increase spray volume as crop growth increases to ensure thorough coverage of the foliage and fruit. Check equipment calibration frequently. Complete coverage and uniform application are essential for the most effective results, especially when lower spray volumes are applied.

**Aerial application** is not allowed on Long Island, New York.

**Chemigation:** Do not apply this product through any type of irrigation system.

**Mixing:** Add recommended amount of Tebuconazole 45 DF to the spray tank while filling with water to the desired level. Maintain agitation while mixing. If other materials are added to the spray tank, be sure that the Tebuconazole 45 DF is thoroughly dispersed before other materials are added.

**Compatibility:** To determine the compatibility of Tebuconazole 45 DF with other mixing partners, use the following procedure:

Pour the recommended proportions of the products into a suitable container of water, mix thoroughly and allow to stand at least five (5) minutes. If the combination remains mixed or can be re-mixed readily, the mixture is considered physically compatible. For further information contact your local SOURCE DYNAMICS, LLC representative.

RECOMMENDED APPLICATIONS			
CROP	DISEASE	RATE OF TEBUCONAZOLE 45 DF	
Cherry Peach Nectarine	Brown rot ( blossom blight, fruit rot	2 oz/100 gallons*	4 – 8 oz/acre**
Cherry	Leaf spot Powdery mildew		
Peach	Rust	2 oz/100 gallons	5 – 8 oz/acre

**Blossom blight:** Begin application at white bud on cherry or pink bud on peach and nectarine. Apply again at 50% bloom and at petal fall if conditions continue to be favorable for disease development.

**Fruit rot:** Begin application at two to three weeks before harvest and continue at 7-day intervals through the day of harvest. The blossom and fruit stages must be protected for optimum control of brown rot. If Tebuconazole 45 DF is applied during only one of these stages, another registered fungicide should be applied to the other stage to provide optimum protection. Additional cover sprays during the early postbloom period are also important for preventing quiescent fruit infections in sweet cherry and peach.

**Leaf spot:** Begin applications at petal fall or when first leaves unfold and continue applications at 7- to 14-day intervals. Applications should be made at 7-day intervals early in the growing season when terminal growth is rapid and/or under severe disease conditions. A postharvest application may be made to maintain control and reduce overwintering inoculum.

**Powdery mildew:** Follow leaf spot schedule until terminal growth ceases.

**Rust:** Begin applications after canker emergence and continue applications at 14-day intervals under severe disease conditions.

**GENERAL USE DIRECTIONS:**  
Tebuconazole 45 DF may be applied up to and including the day of harvest (0-day PHI). Do not apply more than 3 lb of product per acre per crop season.

Tebuconazole 45 DF is a sterol demethylation inhibitor (DMI) fungicide. It may be applied in tank mix or alternated (every other spray application) with a non-DMI (protectant) fungicide as a resistance management strategy. Do not mix Tebuconazole 45 DF with other DMI fungicides.

\* When using the 2 oz/100 gallon rate, use at least 4 oz of Tebuconazole 45 DF per acre.

\*\* The amount of Tebuconazole 45 DF required per acre will depend on tree size and volume of foliage present. The rate per acre is based on a standard of 400 gallons of dilute spray solution per acre for large trees. For smaller trees, multiply 2 oz times the number of 100 gallons of spray solution required to thoroughly wet, to the point of runoff, one acre of the trees being treated. For concentrate sprays, apply the same amount of product per acre as would be applied in a dilute spray based on tree size and foliage volume, but not less than 4 ounces of Tebuconazole 45 DF per acre. Apply 6 to 8 ounces per acre of Tebuconazole 45 DF when severe disease conditions exist.

RECOMMENDED APPLICATIONS		
CROP	DISEASE	RATE OF TEBUCONAZOLE 45 DF
Grape	Black rot	4 oz per acre
	Powdery mildew	

**Powdery mildew:** Apply in a preventive spray schedule. Make the first application of Tebuconazole 45 DF before bloom and continue applications using spray intervals of up to 21 days in low to moderate disease pressure. Use a 14-day schedule when disease pressure is severe.

**Black rot:**  
Preventive Schedule: Make the first application at 1 – 3 inches of new shoot growth and continue at 7- to 14-day intervals through 5° Brix stage or until veraison (berry coloring) is complete. Apply at 1-inch new shoot growth and at 7- to 14-day intervals on highly susceptible varieties or under severe disease conditions.  
Post-Infection Schedule: A post-infection schedule may be followed from 1-inch new shoot growth through 5° Brix stage. Apply within 72 hours after the beginning of an infection period. Tebuconazole 45 DF applications should not be closer than 7 days apart. Continue Tebuconazole 45 DF applications using the preventive schedule if the post-infection schedule is discontinued.

**Botrytis:** Tebuconazole 45 DF, applied in a powdery mildew spray schedule, will enhance the activity of registered fungicides used for control of Botrytis bunch rot. Applications must be made on a 14-day schedule for suppression of Botrytis.

**GENEREAL USE DIRECTIONS**  
Tebuconazole 45 DF may be applied up to 14 days before harvest. A maximum of 2 pounds of Tebuconazole 45 DF may be applied per acre per crop season. The minimum interval between applications is 7 days.

Tebuconazole 45 DF may be applied by ground only in the State of New York.

Apply product in sufficient water for thorough coverage of vines and fruit. Increase spray volume as vine growth increases.

Tebuconazole 45 DF is a sterol demethylation inhibitor (DMI) fungicide. It may be applied in tank mix or alternated (every other spray application) with a non-DMI (protectant) fungicide as a resistance management strategy. Do not mix Tebuconazole 45 DF with other DMI fungicides.

RECOMMENDED APPLICATIONS		
CROP	DISEASE	RATE OF TEBUCONAZOLE 45 DF
Banana Plantain	Black leaf streak	3.2 oz per acre
	Yellow sigatoka	

Apply specified dosage as a foliar spray in a minimum of 20 gallons of water per acre to assure thorough coverage of the plants. A spray oil recommended for use on banana or plantain should be utilized at 4.3 pints per acre in a tank mix with Tebuconazole 45 DF. Thoroughly mix Tebuconazole 45 DF in the spray solution prior to the addition of a spray oil. Make the first application before disease becomes established and repeat applications at 14-day intervals if necessary to maintain disease control.

Do not apply Tebuconazole 45 DF to non-bagged bananas. A maximum of 16 oz of Tebuconazole 45 DF may be applied per acre per harvest cycle. Tebuconazole 45 DF may be applied up to the day of harvest.

**OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES, RESERVOIRS, RIVERS, PERMANENT STREAMS, MARSHES OR NATURAL PONDS, ESTUARIES AND COMMERCIAL FISH PONDS.**

**Spray Drift Management:** The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

**Buffer Zone Requirements:** For soil or foliar applications, do not apply by ground within 25 feet, or by air within 150 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.

**Recommendations for Aerial Applications:** The spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used, and must not exceed 75% of the wing span or rotor diameter.

**Importance of Droplet Size:** An important factor influencing drift is droplet size. Small droplets (<150 – 200 microns) drift to a greater extent than large droplets. Within typical equipment specifications, applications should be made to deliver the largest droplet spectrum that provides sufficient control and coverage. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure.

Spray should be released at the lowest possible height consistent with good pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.

**Wind Speed Restrictions:** Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. Do not apply when winds are greater than 15 mph and avoid gusty and windless conditions. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

**Restrictions During Temperature Inversions:** Do not make aerial or ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

**Airblast (Air Assist) Specific Recommendations for Tree Crops and Vineyards:** Airblast sprayers carry droplets into the canopy of trees/vines via a radially or laterally directed air stream. The following specific drift management practices should be followed:

- Adjust deflectors and aiming devices so that spray is directed only into the canopy.
- Block off upward pointed nozzles when there is no overhanging canopy.
- Use only enough air volume to penetrate the canopy and provide good coverage.
- Do not allow the spray to go beyond the edge of the cultivated area. Turn off sprayer when turning at end rows.
- Spray only inward, toward the orchard or vineyard, for applications to the outside rows.

**Runoff Management:** Do not cultivate within 10 feet of the aquatic areas to allow growth of a vegetative filter strip. When used on erodible soils, best management practices for minimizing runoff should be employed. Consult your local Soil Conservation Service for recommendations in your use area.

#### **ROTATIONAL CROPS**

Any crop not specified on this label may be planted into treated areas 120 days after last application.

#### **IMPORTANT INFORMATION READ BEFORE USING PRODUCT**

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will

be refunded.

The Directions for Use of this product must be followed carefully. The Directions for Use of this product reflect the opinion of experts based on field use and tests. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SOURCE DYNAMICS LLC or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of SOURCE DYNAMICS LLC and Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SOURCE DYNAMICS LLC and Seller harmless for any claims relating to such factors.

SOURCE DYNAMICS, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SOURCE DYNAMICS LLC, and Buyer and User assume the risk of any such use. SOURCE DYNAMICS LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, SOURCE DYNAMICS LLC or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SOURCE DYNAMICS LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE, AT THE ELECTION OF SOURCE DYNAMICS LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT, OR COMPENSATION LIMITED TO DAMAGES NOT EXCEEDING THE FAIR MARKET PURCHASE PRICE, AND SHALL NOT INCLUDE INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

SOURCE DYNAMICS LLC and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by the duly authorized representative of SOURCE DYNAMICS LLC



DATE OUT: 15 Jan 2009

SUBJECT: **PRODUCT CHEMISTRY REVIEW**      MP [ ] EP [x]  
DP BARCODE No.: D358000  
Reg. File Symbol No.: 82542-O  
PRODUCT NAME: Tebuconazole 45 DF Fungicide  
COMPANY: Source Dynamics, LLC  
Decision No.: 400556      PC CODE: 128997  
FOOD USE: [ x ]      Integrated Formulation [ ]

FROM: Bruce F. Kitchens, Chemist  
Technical Review Branch  
Registration Division (7505P)

TO: RM #21, Mary Waller/Robert Westin  
Fungicide Branch (7505P)  
Registration Division (7505P)

*Bruce F. Kitchens*

*15 Jan 2009*

*SBW 01/15/09*

**INTRODUCTION:**

The registrant, Source Dynamics LLC, is submitting an application to register the proposed end-use product, Tebuconazole 45 DF Fungicide. The active ingredient in this product is Tebuconazole (97% a.i.) at a label nominal concentration of 45.0% a.i. This product is intended for use as a food use fungicide. In addition, the registrant states that the proposed product is substantially similar to EPA Reg. No. 264-749 Elite 45 Foliar Fungicide. In support of this request, the registrant has submitted a basic Confidential Statement of Formula (CSF) dated 16 Sept 2008, a draft label, and product chemistry data contained in MRID#s 475491-01 and 475634-01. The Technical Review Branch (TRB) has been asked to review this submission.

**SUMMARY OF FINDINGS**

TRB has reviewed this submission and reports the following findings:

1. This product is produced from a registered source of the active ingredient.
2. All inert ingredients are approved for use in formulated pesticide products. In addition, all inert ingredients are exempt from the requirement of a food tolerance when applied to growing crops.
3. The nominal concentration of the active ingredient listed on the proposed basic CSF and the draft label are the same.
4. The draft label contains the appropriate storage and disposal statements.
5. The active ingredient's certified limits as proposed on the basic CSF are acceptable.
6. The comparison of the proposed and cited products reveals that both products have the same active ingredient, the same active ingredient nominal concentration, and similar inert ingredients.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

**TECHNICAL REVIEW BRANCH  
SIMILARITY CLINIC DETERMINATION**

07/JAN/2009

MEMORANDUM

Subject: Name of Pesticide Product: Tebuconazole 45 DF Fungicide  
EPA Reg. No. /File Symbol: 82542-O  
DP Barcode: D358002  
Decision No: 400556  
Action Code: R301  
PC Code: 128997 (tebuconazole)

From: Eugenia McAndrew, Biologist  
Technical Review Branch  
Registration Division (7505P)

*E. McAndrew*  
*M. Hashin*

To: Robert Westin, RM Team 21  
Fungicide Branch  
Registration Division (7505P)

Applicant: Source Dynamics, LLC  
10039 E. Troon North Drive  
Scottsdale, AZ 85262

FORMULATION FROM LABEL:

<u>Active Ingredient(s):</u>	<u>% by wt.</u>
Tebuconazole	45.0
<u>Inert Ingredient(s):</u>	<u>55.0</u>
Total:	100.0%

**ACTION REQUESTED:** The Risk Manager requests: Registrant has cited acute toxicity data that was originally submitted to support the registration of 66330-342 (MRIDs 466089-03 thru -08). Can this cited data be used to support the registration of 82542-O?

## CONCLUSIONS:

TRB has reviewed this submission and concludes the following:

1. The basic formula CSF for the proposed end-use product, Tebuconazole 45 DF Fungicide dated 16 Sept 2008 is acceptable.
2. This submission (MRID#s 475491-01 & 470384-01) satisfies the data requirements as specified in 40 CFR 158.320, 158.325, 158.335, 158.340, 158.350, and 158.355 with respect to product identity and composition, description of materials used to produce the product, description of formulation process, discussion of formation of impurities, certified limits, and enforcement analytical method.
3. This submission satisfies the data requirements as specified in 40 CFR 158.310 (MRID# 466089-02, 468178-0, & 470384-01) with respect to physical and chemical properties. The registrant submitted self-certified physical and chemical properties data. Inform the registrant that for future submissions in which self-certification data is submitted, it should be submitted under cover so that the data is assigned an MRID number.
4. The proposed product has been determined to be substantially similar in composition to EPA Reg. No. 264-749 Elite 45 DF Foliar Fungicide.

## PRODUCT CHEMISTRY DATA (SERIES 830 Subgroup A)

Subgroup A – Product Identity and Composition	<u>Data Required</u> <u>Fulfilled</u>	<u>MRID No.</u>
830.1550. Chemical Identity	Y	475491-01
830.1600. Beginning Materials	Y	see csf 9/16/08
830.1650. Formulation Process	Y	475491-01
830.1670. Discussion of Impurities	Y	475491-01
830.1700. Preliminary Analysis	NA	
830.1750. Certified Limits	Y	See csf 9/16/08
830.1800. Enforcement Analytical Method	Y	470384-01

PRODUCT CHEMISTRY DATA (SERIES 830 Subgroup B)

Subgroup B – Physical and Chemical Properties	<u>Data Required Fulfilled</u>	<u>Value or Qualitat. Descrip.</u>	<u>MRID No.</u>
830.6302. Color	Y	Tan	470384-01
830.6303. Physical State	Y	Solid	466089-02
830.6304. Odor	Y	Organic	466089-02
830.6314. Oxidation/Reduction Action	y	Stable to metal ions and salts	466089-02
830.6315. Flammability	NA	Product does not contain flammable components	
830.6316. Explodability	NA	Product does not contain explosive components	
830.6317. Storage stability	Y	Product stable after 1 year storage at 25°C	468178-01
830.6319. Miscibility	NA	Product not an EC nor mixed with petroleum solvents	
830.6320. Corrosion Characteristics	Y	Not corrosive to HDPE packaging after 1 year storage	468178-01
830.6321. Dielectric Breakdown Voltage	NA	Product not used around electrical equipment	
830.7000. pH	Y	7.2 (1% susp.)	466089-02
830.7100. Viscosity	NA	Product is a solid	
830.7000. Density/Bulk Density	Y	33-39 lb/ft <sup>3</sup>	466089-02

Explanations: A = The Requirements Were Fulfilled; N = The Requirements Were Not Fulfilled; NA = Not Applicable; G = Data Gap; U = Requires Upgrading; I = Incomplete or In Progress; W = Waived.

**Enforcement Analytical Method:** (MRID No. 470384-01)

The active ingredient, Tebuconazole, was determined by reverse phase high performance liquid chromatography (HPLC) using ultraviolet detection (UV) at 254 nm and an internal standard. Method validation data was not presented in this submission.

**Equipment and Parameters**

Instrument:	Varian ProStar Model 210 HPLC (or similar)
Detector:	Varian Model 320 UV-Vis (or similar)
Wavelength:	254 nm
Column:	Custom LC, Inc., Exsil 100 SAX (strong anion exchange)
Sample Size:	10.0 $\mu$ l
Mobile Phase:	Acetonitrile/Buffered Water 2575
Mobile Phase Gradient:	Isocratic
Flow Rate:	1.0 ml/min
Run Time:	10.0 minutes



**BACKGROUND:** Source Dynamics, LLC has applied for registration of Tebuconazole 45 DF Fungicide, EPA File Symbol 82542-O. To satisfy the acute toxicity data requirements, the registrant has provided a data matrix citing acute toxicity studies with MRIDs 466089-03 to -08. A search of the OPP electronic databases shows that these six acute toxicity studies were submitted to support the registration of Tebuconazole 45 DF Foliar Fungicide, EPA Reg. No. 66330-342 (transferred from 51036-441). The studies were reviewed and classified as acceptable in a prior TRB memo (McAndrew; D320484; 25/AUG/2005). Both the proposed and cited products contain 45.0% tebuconazole as the active ingredient.

**RECOMMENDATIONS:** TRB has evaluated the formulations of the proposed product, 82542-O, and the cited product, 66330-342, and has determined that the two products are substantially similar.

The acute toxicity profile for the proposed product, Tebuconazole 45 DF Fungicide, EPA File Symbol 82542-O, is as follows:

acute oral toxicity	III	cited	MRID 46608903
acute dermal toxicity	IV	cited	MRID 46608904
acute inhalation toxicity	IV	cited	MRID 46608905
primary eye irritation	II	cited	MRID 46608906
primary skin irritation	III	cited	MRID 46608907
dermal sensitization	Neg.	cited	MRID 46608908

The proposed basic CSF dated September 16, 2008 should be approved by the TRB Product Chemistry Team.

**LABELING:** Based on the toxicity profile above, the following are the precautionary and first aid statements for this product as obtained from the Label Review System:

**PRODUCT ID #:** 082542-00009

**PRODUCT NAME:** Tebuconazole 45 DF Fungicide

**PRECAUTIONARY STATEMENTS**

**SIGNAL WORD:** WARNING

**SPANISH SIGNAL WORD:** AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

### **Hazards to Humans and Domestic Animals:**

Causes substantial but temporary eye injury. Harmful if swallowed. Avoid contact with skin or clothing. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves.

### **First Aid:**

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor for treatment advice.

If swallowed:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give anything to an unconscious person.

If on skin:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-xxx-xxxx for emergency medical treatment information.

### **User Safety Recommendations:**

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse

# Form A Submissions Checklist (FB version 6/07)

Reg No. 82542-0 R301 Decision # 400556 Due Date: 2/10/09 Fee paid: Y/N Reviewer B. B. B.

Parent \_\_\_\_\_ Children \_\_\_\_\_

OCT 22 2008

Reviewer Receipt Date (present within 2 weeks of this date) \_\_\_\_\_

No.	Check List Item	Yes	No
1.	<b>Application Form</b> Is 8570-1 signed/dated, completely filled out? Does Box 6 identify a Me-Too? <u>264-749</u> If using a consultant, is there an authorization on company letterhead?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.	<b>Confidential Statement of Formula</b> Are basic/alternate CSFs filled out completely (Boxes 1-21)? Is product a 100% Repack? If product is not a 100% repack, were all required prod chem/acutes cited, waived, or submitted?	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
3.	<b>Formulator's Exemption Statement (FES)</b> Do they qualify for using FES? Is FES filled out completely/properly? Do listed source(s) on FES exactly match source(s) on CSF?	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
4.	<b>Certification with Respect to Citation of Data</b> [Applicable if submission is not a 100% repack] Did applicant check correct Method(s) of Support for product specific and generic data? Does method(s) of support match that used on matrix? If applicable, is General Offer to Pay checked for Cite-all Method or Cite-all under Selective Method? Is the form signed/dated completely filled out? If Exclusive Use data is cited from other sources, is authorization letter from data owner provided?	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
5.	<b>Data Matrix</b> (Not needed if submission is a 100% repack) If Cite-All is used was a matrix submitted which lists all companies on the data submitters list (DSL)? (If cite-all, attach a copy of latest DSL list for each AI in the product to your submission) If they used selective or Cite All for product chemistry, are they exactly identical to a product? If using Selective method, or using both methods, are all required MP or EP MRIDs or waivers listed on matrix (eg., product chem., acutes, subchronic, chronic, F&W, eco/fate, mutagenicity, task forces, etc)? If acutes are cited make a BEAN for similarity review. If waived, also make a BEAN. If registrant doesn't qualify for using the FES because they're using their own source of AI, or using an unregistered AI, was a generic data matrix and Certificate included? Was the public copy of matrix provided?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
6.	<b>Label Scan</b> Is label included (one highlighted copy and 3 clean copies)? Are any pages missing/illegible? (No shading, small or crowded font, etc.) Does the new me too product contain the same AIs at the same concentrations? Does the new me too product contain the same uses as the cited product?	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
7.	Does assigned PRIA "R" code correctly match the type of submission? Is a 75 day letter or due date extension needed, based on missing "show stoppers"?	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
8.	Which BEANS need to be made (TRB/PChem; TRB/ATox; HED/Tox; HED/Res.chem; HED/OREB; EFED/Nontarget species Assessmt; EFED/Drink. H <sub>2</sub> O; BEAD; etc)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>



*Sumner*  
*Assign to Bob*

To the Document Center (ITRMD)

\*Please transfer jacket /mini-jacket to Product Manager Team circled below:

Minor Use Section      PM-5

Insecticide Branch      PM-10      PM-13

Herbicide Branch      PM-23      PM-25

Fungicide Branch      PM-21      PM-22

Insect /Rodent Br.      PM-1      PM-7

\*Reminder to PM – If applicable pick-up data from Screening Room.

Processed by RD's Completeness Check Team

*Mary Walker*  
(Team Member Signature)

*10/17/08*  
(Date)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

October 9, 2008

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

SOURCE DYNAMICS, LLC  
10039 E. TROON NORTH DRIVE  
SCOTTSDALE, AZ 85262-

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your submittal of 08-OCT-08. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.





October 6, 2008

Document Processing Desk (APPL)  
Office of Pesticide Programs (P7504C)  
Environmental Protection Agency  
Room S-4900, One Potomac Yard (South Building)  
2777 S. Crystal Drive  
Arlington, VA 22202

Attn: Mary Waller (PM 21), Registration Division

Dear Ms. Waller:

Subject: Tebuconazole 45 DF Herbicide: EPA File Symbol <sup>25</sup>85242-0: Decision 400556

Thank you for your e-mail on October 2 regarding the front-end screen of our registration application. Please find enclosed a Formulator's Exemption Statement with an attached Confidential Statement of Formula and a report of Certification of Limits. A Data Transmittal Document for the report is enclosed. We apologize for the inconvenience.

I certainly appreciate your assistance. Please contact me if you have any questions.

Sincerely,

Rufus Bastian, President  
Source Dynamics LLC  
rbastianllc@cox.net

10039 E. Troon North Drive  
Scottsdale, AZ 85262

Tel. 480.502.9289

Fax 480.502.9268

23



**DATA TRANSMITTAL DOCUMENT**

Name and Address of Submitter

Source Dynamics LLC  
10039 E. Troon North Drive  
Scottsdale, AZ 85262

Regulatory Action in Support of Which This Package is Submitted

Application for Pesticide Registration  
Tebuconazole 45 DF Fungicide, EPA File Symbol 82542-O

Transmittal Date

October 6, 2008

List of Submitted Studies (3 Copies of Each)

**47563401** R. Bastian, "Tebuconazole 45 DF: Certification of Limits, " Report No. SD081006  
(October 6, 2008), 8 pages, OPPTS 830.1750.

Company Official:  
Company Name:  
Company Contact:

Rufus Bastian Signature:  
Source Dynamics LLC  
Rufus Bastian, President  
rbastianllc@cox.net  
telephone (480) 502-9289

10039 E. Troon North Drive  
Scottsdale, AZ 85262

Tel. 480.502.9289

Fax 480.502.9268

24



United States  
**Environmental Protection Agency**  
 Washington, DC 20460  
**Formulator's Exemption Statement**  
 (40 CFR 152.85)

Applicant's Name and Address  Source Dynamics LLC 10039 E. Troon North Drive Scottsdale, AZ 85262	EPA File Symbol/Registration Number 82542-O
	Product Name Tebuconazole 45 DF Fungicide
	Date of Confidential Statement of Formula (EPA Form 8570-4) 09/16/2008

As an authorized representative of the applicant for registration of the product identified above, I certify that:

- (1) This product contains the following active ingredient(s):

tebuconazole

- (2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging another product which contains that active ingredient which is registered under FIFRA Section 3, is purchased by us from another person and meets the requirements of 40 CFR section 158.50(e)(2) or (3).

- (3) Indicate by checking (A) or (B) below which paragraph applies:

- ☒ (A) An accurate Confidential Statement of Formula (EPA FORM 8570-4) for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

OR

- ☐ (B) The Confidential Statement of Formula (CSF)(EPA Form 8570-4) referenced above and on file with the EPA is complete, current, an accurate and contains the information required on the current CSF.

- (4) The following active ingredients in this product qualify for the formulator's exemption.

Source		
Active Ingredient	Product Name	Registration Number
tebuconazole	[REDACTED]	[REDACTED]
<div>Signature: <i>Rufus Bastian</i></div> <div>Name and Title: Rufus Bastian, President</div> <div>Date: 10/06/2008</div>		

EPA Form 8570-27 (Rev. 06-2004)

**\*PRODUCT INGREDIENT SOURCE INFORMATION IS NOT INCLUDED\***

Copy 1 - EPA  
 Copy 2 - Applicant copy



"Erik Brandt"  
<ebrandt@solerasd.com>  
10/06/2008 10:35 AM

To Mary Waller/DC/USEPA/US@EPA  
cc "Rufus Bastian" <rbastian@solerasd.com>, "Vaso Stojic"  
<vstojic@solerasd.com>  
bcc  
Subject Scan from MFP

Dear Mary,  
Mr. Bastian is unavailable this week and in his absence he requested that I notify you the information required ( Guideline 830.1750 and Formulators Exemption Statement) are en route to EPA. They are being sent via Fed Ex today. They were not e-mailed because they contain confidential information. If you have any question please do not hesitate to contact me in lieu of Mr. Bastian's absence this week. Thank you,

Erik Brandt  
Source Dynamics, LLC  
(982) 941-1822



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Rufus Bastian

Date: 10/2/2008

Source Dynamics LLC

10039 E. Troon North Drive

Scottsdale, AZ 85262

Your email: rbastian110@cox.net

Subject: File Symbol/Registration No. 82542-0

Dear Mr./Ms. Bastian

The above referenced PRIA application was screened by the Registration Division's Completeness Check Team and determined to be deficient. Please see the enclosed copy of our screening checklist for the specific deficiency.

You must submit corrections within 7 days of the date of this notice, to the Completeness Check Team. Include the following Decision Number on your cover letter with the words **"Resubmission - For RD's Completeness Check Team"** to identify your package.

Decision #D 400556

RESUBMISSION - For RD's Completeness Check Team

You may send in corrections via fax or e-mail, provided that the material is not Confidential Business Information. Our fax number is (703) 347-8932. Our e-mail address is: OPP\_RD\_Completeness\_Screening@epa.gov.

If you cannot meet this time frame, please contact us for further discussions on this matter. My telephone number is (703) 308 - 9354.

Sincerely,

*Mary J. Wallen*

Completeness Check Team  
Registration Division (7505P)  
U.S. EPA, One Potomac Yard  
2777 S. Crystal Drive  
Arlington, VA 22202

Attachment

# PRIA 2 – 21 Day Content Screen Review Worksheet

(EPA/OPP Use Only)

21 Day Screen Start Date: 9/30/08

4/9/08

Experts In-Processing Signature: Mary Walker Date 10/2/08

Fee Paid: Yes ☒

Division management contacted on issues No ☐ Yes ☐ Date \_\_\_\_\_

EPA Reg. Number: <u>8 2542-0</u>		EPA Receipt Date: <u>9/22/08</u>								
Items for Review				Yes	No	N/A*				
1	Application Form (EPA Form 8570-1) signed & complete including package type			<input checked="" type="checkbox"/>						
2	Confidential Statement of Formula all boxes completed, form signed, and dated (EPA Form 8570-4)			<input checked="" type="checkbox"/>						
	a) All inerts, except fragrances, approved for food and non food proposed uses (see Footnote A)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">yes</td> <td style="text-align: center;">no</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	yes	no	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
yes	no									
<input checked="" type="checkbox"/>	<input type="checkbox"/>									
3	Certification with Respect to Citation of Data (EPA Form 8570-34) completed and signed (N/A if 100% repack)			<input checked="" type="checkbox"/>						
	Certificate and data matrix consistent			<input checked="" type="checkbox"/>						
	If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">yes</td> <td style="text-align: center;">no</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	yes	no	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
yes	no									
<input checked="" type="checkbox"/>	<input type="checkbox"/>									
	If applicable, is there a letter of Authorization for exclusive use only.									
4	Formulator's Exemption Statement (EPA Form 8570-27) completed and signed (N/A if source is unregistered or applicant owns the technical)				<input checked="" type="checkbox"/>					
	Data Matrix (EPA Form 8570-35) both internal and external copies (PR 98-5) completed and signed (N/A if 100% repack)			<input checked="" type="checkbox"/>						
5	a) Selective Method (Fee category experts use)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">yes</td> <td style="text-align: center;">no</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	yes	no	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
yes	no									
<input checked="" type="checkbox"/>	<input type="checkbox"/>									
	b) Cite-All (Fee category experts use)									
	c) Applicant owns all data (Fee category experts use)									
6	5 Copies of Label (Electronic labels on CD are encouraged)			<input checked="" type="checkbox"/>						
7	Is the data package consistent with PR Notice 86-5				<input checked="" type="checkbox"/>					
8	Notice of Filing (link to included with petitions)					<input checked="" type="checkbox"/>				



9	If applicable for conventional applications, reduced risk rationale			
	Required Data and/or data waivers. See Footnote C.			
10	<p>a) List study (or studies) not included with application</p> <p>Guideline # 830.1750 is missing. Registrant referenced CSF on data matrix. An 86-5 formatted study must be submitted for Guideline # 830.1750. It is unacceptable to simply reference the CSF on the data matrix.</p>		✓	

**Comments:**

Missing Formulator's Exemption Statement and  
Guideline #830.1750

\* N/A – Not Applicable

## Footnotes

A. This consideration does not apply to PRIA applications that include a request to approve an inert in the fee category. For these PRIA actions, information needs to be submitted to enable the Agency to review the inert approval request and will be a subject of the 21 day content screen. For other types of actions and for fragrances, the answer is only for the Agency's information and current policies, processes, and procedures should be consulted. This worksheet will be updated in the future to be consistent with current policies.

If brand, trade, or proprietary names are being used for some inert ingredients listed on the CSF, alternate names or additional information on the nature of the ingredient(s) should be provided to allow the Agency to determine whether the inert has been approved.

B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.

C. Refer to the list of data requirements. Biopesticide applicants were advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.

# ISB'S Front-end PRIA Completeness Screen

Draft 3; 10/25/07

EPA Receipt Date: <b>SEP 22 2008</b>		EPA Reg. Number: <b>82542-0</b>		
	Check List Item	Yes	No	N/A
1	Has the <b>PRIA Fee been Paid</b> ; is a copy of the check or Pay.gov receipt included in the Submission Package?	X	<del>XXX</del>	
2	Is an <b>Application Form</b> (EPA Form 8570-1) Included in the Submission Package, is it completely filled out and signed including package type?	X		
3	Is a <b>Confidential Statement of Formula</b> (EPA Form 8570-29) Included in the Submission Package, is it completely filled out and signed (boxes 1-21)?	X		
4	Is a <b>Formulator's Exemption Statement</b> (EPA Form 8570-27) Included in the Submission Package?		X	
5	Is a <b>Certification with Respect to Citation of Data</b> (EPA Form 8570-34) Included in the Submission Package?	X		
6	Is a <b>Data Matrix</b> (EPA Form 8570-35) Included in the Submission Package?	X		
7	Is a <b>Label</b> Included in the Submission Package?	X		
8	Are <b>Data</b> Included in the Submission Package?	X		
9	Is the Submission an Amendment?		X	



United States  
Environmental Protection Agency  
Washington, DC 20460  
**Formulator's Exemption Statement**  
(40 CFR 152.85)

Applicant's Name and Address <b>Source Dynamics LLC</b> 10039 E. Troon North Drive Scottsdale, AZ 85262	EPA File Symbol/Registration Number <b>82542-U</b>
	Product Name <b>Tebuconazole Technical</b>
	Date of Confidential Statement of Formula (EPA Form 8570-4) <b>08/11/2007</b>

As an authorized representative of the applicant for registration of the product identified above, I certify that:

(1) This product contains the following active ingredient(s):

**tebuconazole**

(2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging another product which contains that active ingredient which is registered under FIFRA Section 3, is purchased by us from another person and meets the requirements of 40 CFR section 158.50(e)(2) or (3).

(3) Indicate by checking (A) or (B) below which paragraph applies:

☒ (A) An accurate Confidential Statement of Formula (EPA FORM 8570-4) for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

OR

☒ (B) The Confidential Statement of Formula (CSF) (EPA Form 8570-4) referenced above and on file with the EPA is complete, current, an accurate and contains the information required on the current CSF.

(4) The following active ingredients in this product qualify for the formulator's exemption.

Source		
Active Ingredient	Product Name	Registration Number
tebuconazole	[REDACTED]	[REDACTED]
Signature <i>Rufus Bastian</i>	Name and Title <b>Rufus Bastian, President</b>	Date <b>10/08/2007</b>

EPA Form 8570-27 (Rev. 06-2004)

Copy 1 - EPA  
Copy 2 - Applicant copy

*Wing form manually*  
\*PRODUCT INGREDIENT SOURCE INFORMATION IS NOT INCLUDED\*



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

September 29, 2008

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

OPP Decision Number: D-400556  
EPA File Symbol or Registration Number: 82542-O  
Product Name: TEBUCONAZOLE 45 DF FUNGICIDE  
EPA Receipt Date: 22-Sep-2008  
EPA Company Number: 82542  
Company Name: SOURCE DYNAMICS, LLC

RUFUS BASTIAN  
SOURCE DYNAMICS, LLC  
10039 E. TROON NORTH DRIVE  
SCOTTSDALE, AZ 85262-

SUBJECT: Receipt of Registration Application Subject to Registration Service Fee

Dear Registrant:

The Office of Pesticide Programs has received your application and certification of payment. If you submitted data with this application, the results of the PRN-86-5 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: R301  
NEW PRODUCT; IDENTICAL OR SUBSTANTIALLY SIMILAR IN COMPOSITION AND  
USE TO A REGISTERED PRODUCT; REGISTERED SOURCE OF ACTIVE  
INGREDIENT; SELECTIVE DATA CITATION ONLY FOR DATA ON PRODUCT  
CHEMISTRY / ACUTE TOXICITY / PUBLIC HEALTH PEST EFFICACY, WHERE  
APPLICANT DOES NOT OWN ALL REQUIRED DATA NOR HAS AUTHORIZATION  
LETTER FROM DATA OWNER;

No additional payment is due at this time.

If you have any questions, please contact the Pesticide Registration Service Fee  
Ombudsman at (703) 305-6249.

Sincerely,  
*Teresa Downs*

Front End Processing Staff  
Information Technology & Resources Management Division





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

September 26, 2008

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

SOURCE DYNAMICS, LLC  
10039 E. TROON NORTH DRIVE  
SCOTTSDALE, AZ 85262-

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your submittal of 22-SEP-08. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.





475491-00

September 16, 2008

Document Processing Desk (APPL)  
Office of Pesticide Programs (P7504C)  
Environmental Protection Agency  
Room S-4900, One Potomac Yard (South Building)  
2777 S. Crystal Drive  
Arlington, VA 22202

Attn: Mary Waller (PM 21), Registration Division

Dear Ms. Waller:

Subject: Tebuconazole 45 DF Herbicide: Registration Application

Source Dynamics LLC wishes to apply for the registration of a new end-use product, Tebuconazole 45 DF Fungicide. This product is substantially similar to several registered products. In support of this application we have enclosed the following:

Application for Pesticide Registration (8570-1)  
Confidential Statement of Formula (8570-4)  
Certification with Respect to Citation of Data (8570-34)  
Data Matrix (8570-35)  
Summary of the Physical/Chemical Properties (8570-36)  
Self-Certification Statement for the Physical/Chemical Properties (8570-37)  
Proposed label (6 copies)  
Supporting study (3 copies, with Data Transmittal Document)

We have concluded that this regulatory action falls in PRIA II Category R300, for which a fee of \$1,365 is required. If the Agency concurs, please contact me at the e-mail address below.

Thank you for your consideration of this project. Please contact me if you have any questions.

Sincerely,

Rufus Bastian, President  
Source Dynamics LLC  
rbastianllc@cox.net

10039 E. Troon North Drive  
Scottsdale, AZ 85262

Tel. 480.502.9289

Fax 480.502.9268

35



## DATA TRANSMITTAL DOCUMENT

Name and Address of Submitter

Source Dynamics LLC  
10039 E. Troon North Drive  
Scottsdale, AZ 85262

Regulatory Action in Support of Which This Package is Submitted

Application for Pesticide Registration  
Tebuconazole 45 DF Fungicide, EPA File Symbol 82542-x

Transmittal Date

September 16, 2008

List of Submitted Studies (3 Copies of Each)

**47549101** R. Bastian, "Tebuconazole 45 DF: Product Identity, Description of Materials, Manufacturing Process and Discussion of Impurities," Report No. SD0608 (September 15, 2008), 41 pages, OPPTS 830.1550, 830.1600, 830.1620 and 830.1670

Company Official:  
Company Name:  
Company Contact:

Rufus Bastian Signature: *Rufus Bastian*  
Source Dynamics LLC  
Rufus Bastian, President  
rbastianllc@cox.net  
telephone (480) 502-9289

10039 E. Troon North Drive  
Scottsdale, AZ 85262

Tel. 480.502.9289

Fax 480.502.9268

36



"Terry Stojic"  
<tstojic@solerasd.com>  
09/26/2008 04:00 PM

To Teresa Downs/DC/USEPA/US@EPA  
cc "'Vaso Stojic'" <vstojic@solerasd.com>,  
<rbastian@solerasd.com>, "'Robert Hawk'"  
<raphawk@aol.com>  
bcc  
Subject FW: Pay.Gov . ayment Confirmation

Teresa,  
Below is confirmation of the \$195.00 payment for Source Dynamics, LLC  
(82542) For underpayment of PRIA fee for application to register  
tebuconazole  
45 DF fungicide.

Please email or call me if you have any questions or concerns.  
Thank you!

Terry Stojic  
tstojic@solerasd.com  
480-218-4289

-----Original Message-----

From: paygovadmin@mail.doc.twai.gov [mailto:paygovadmin@mail.doc.twai.gov]  
Sent: Friday, September 26, 2008 12:55 PM  
To: tstojic@solerasd.com  
Subject: Pay.Gov Payment Confirmation

THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.

Your transaction has been successfully completed.

Payment Summary

Application Name: PRIA Service Fees  
Pay.gov Tracking ID: 24V0IATI  
Agency Tracking ID: 74055232435

Account Holder Name: Terry K Stojic  
Transaction Type: Sale  
Billing Address: 7364 E Red Hawk street  
City: Mesa  
State/Province: AZ  
Zip/Postal Code: 85207  
Country: USA  
Card Type: Master Card  
Card Number: \*\*\*\*\*0850  
Expiration Date: Jun, 2009  
Payment Amount: \$195.00  
Transaction Date: Sep 26, 2008 3:54:53 PM

Decision Number:  
Registration Number: 82542



"Rufus Bastian"  
<rbastianllc@cox.net>  
09/25/2008 12:19 PM

To Teresa Downs/DC/USEPA/US@EPA  
cc "Terry Stojic" <tstojic@solerasd.com>  
bcc  
Subject Re: Underpayment of PRIA fee for application to register  
tebuconazole 45 DF fungicide

Thank you for your message Teresa. I have forwarded it to our accounts payable person who will remit the balance immediately and inform you it has been paid.

Sincerely,

Rufus Bastian

----- Original Message -----

From: <Downs.Teresa@epamail.epa.gov>  
To: <rbastianllc@cox.net>  
Sent: Thursday, September 25, 2008 9:34 AM  
Subject: Underpayment of PRIA fee for application to register tebuconazole 45 DF fungicide

>  
> Dear Mr. Bastian,  
>  
> The PRIA team has determined that this action should be an R301 with a  
> fee of \$1,560 rather than an R300 as you had anticipated. Please send  
> me a copy of a check or a pay.gov receipt to correct the \$195  
> underpayment. If you have any questions about the assignment of the  
> action code, please contact Linda Arrington.  
>  
> Teresa Downs  
> Information Services Branch  
> Office of Pesticide Programs  
> U.S. Environmental Protection Agency  
> phone: (703)305-5363  
> fax: (703)305-7670  
> Visit <http://www.epa.gov/pesticides>  
>

**ON HOLD**  
**Pending receipt of certification of PRLA fee  
payment**

**Date placed on hold:** 9/25/08

**Date released:** \_\_\_\_\_

**Receipt: S-** 836669

**File Symbol/Reg. #:** 82542-0

**Registrant contact information:**

**Name:** Rufus Bastian

**Phone/Email address:** rbastian11c@cox.net

**Notes:** underpaid by \$195  
9/25/08 Sent email

Information Services Branch point of contact: Teresa Downs, S-6922, (703)305-5363

# Fee for Service

836669~

This package includes the following

- ☒ New Registration
- ☐ Amendment

☒ Studies? ☐ Fee Waiver?  
☐ volpay ☒ % Reduction: \_\_\_\_\_

for Division

- ☐ AD
- ☐ BPPD
- ☒ RD

Risk Mgr. 21

Receipt No.

S- 836669

EPA File Symbol/Reg. No.

82542-O

Pin-Punch Date:

9/22/2008

☐ This item is NOT subject to FFS action.

## Action Code:

Requested: R300

Granted: R301

Amount Due: \$ 1560<sup>00</sup>

## Parent/Child Decisions:

Inerts approved for growing crops.

☒ Inert Cleared for Intended Use

☐ Uncleared Inert in Product

Reviewer: *[Signature]*

Date: 9/25/08

Remarks:

\* Matrix does not include info. for generic data reg.





"Terry Stojic"  
<tstojic@solerasd.com>  
09/18/2008 01:31 PM

To Teresa Downs/DC/USEPA/US@EPA  
cc  
bcc  
Subject PRIA payment...

Teresa,

Below is a copy of my transaction of payment for  
A registration application for TEBUCONAZOLE 45 DF Herbicide you  
Should receive tomorrow, Friday Sept. 19.  
I have not gotten an email confirmation yet. So, I'm sending you  
A copy of my payment confirmation. ( I'm hoping I didn't type my  
Email address incorrectly when I made the payment).

Thank you,  
Terry Stojic  
Source Dynamics, LLC  
Mesa, AZ  
[tstojic@solerasd.com](mailto:tstojic@solerasd.com)  
480-218-4289

## Online Payment

### Step 3: Confirm Payment

1 | 2 | 3

Thank you.

**Your transaction has been successfully completed.**

**It is recommended you print a copy for your records.**

Pay.gov Tracking Information



Print this window.

Application Name:PRIA Service Fees  
Pay.gov Tracking ID:24UVT3T8  
Agency Tracking ID:74054537129  
Transaction Date and Time:09/18/2008 12:54 EDT

Payment Summary

Address Information	Account Information	Payment Information
Account Holder Name: Terry K Stojic Billing Address: 7364 E Red Hawk Street Billing Address 2: City: Mesa State / Province: AZ Zip / Postal Code: 85207 Country: USA	Master Card Type: Card *****0 Card Number: 850 Expiration Date: 6 / 2009 Decision Number: Registration Number: 82542	Payment Amount: \$1,365.00 Transaction Date: 09/18/2008 and Time: 12:54 EDT
<a href="#">Return to your form search results</a> <a href="#">Return to Home</a>		

Terry Stojic  
Source Dynamics, LLC  
7364 E. Red Hawk Street  
Mesa, AZ 85207  
480.218.4289



United States


Environmental Protection Agency

Washington, DC 20460

X

Registration  
Amendment  
Other**OPP Identifier Number**

## Application for Pesticide - Section I

<b>1. Company/Product Number</b> 82542- <del>2</del> 	<b>2. EPA Product Manager</b> Mary Waller	<b>3. Proposed Classification</b> <div style="display: flex; justify-content: space-around;"> <span><input checked="" type="checkbox"/> None</span> <span><input type="checkbox"/> Restricted</span> </div>
<b>4. Company/Product (Name)</b> Tebuconazole 45 DF Fungicide	<b>PM#</b> 21	
<b>5. Name and Address of Applicant (Include ZIP Code)</b>  Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale, AZ 85262  <input type="checkbox"/> <i>Check if this is a new address</i>	<b>6. Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. <u>264-749</u>  Product Name <u>Elite 45 DF Foliar Fungicide</u>	

## Section - II

<input type="checkbox"/>	Amendment - Explain below.	<input type="checkbox"/>	Final printed labels in response to Agency letter dated _____
<input type="checkbox"/>	Resubmission in response to Agency letter dated _____	<input type="checkbox"/>	"Me Too" Application.
<input type="checkbox"/>	Notification - Explain below.	<input checked="" type="checkbox"/>	Other - Explain below.

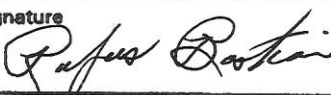
**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Registration application for a new end-use product.

### Section - III

1. Material This Product Will Be Packaged In:					
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
* Certification must be submitted		If "Yes" Unit Packaging wgt.		No. per container	
		If "Yes" Package wgt		No. per container	
2. Type of Container					
<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____					
3. Location of Net Contents Information		4. Size(s) Retail Container		5. Location of Label Directions	
<input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		2.5 gal		<input type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product		<input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input checked="" type="checkbox"/> Other _____			

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application..)			
Name Rufus Bastian		Title President	Telephone No. (Include Area Code) 480-502-9289
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received  (Stamped)
2. Signature 		3. Title President	
4. Typed Name Rufus Bastian		5. Date September 16, 2008	



September 16, 2008

Document Processing Desk (APPL)  
Office of Pesticide Programs (P7504C)  
Environmental Protection Agency  
Room S-4900, One Potomac Yard (South Building)  
2777 S. Crystal Drive  
Arlington, VA 22202

Attn: Mary Waller (PM 21), Registration Division

Dear Ms. Waller:

Subject: Tebuconazole 45 DF Herbicide: Registration Application

Source Dynamics LLC wishes to apply for the registration of a new end-use product, Tebuconazole 45 DF Fungicide. This product is substantially similar to several registered products. In support of this application we have enclosed the following:

Application for Pesticide Registration (8570-1)  
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Certification with Respect to Citation of Data (8570-34)  
Data Matrix (8570-35)  
Summary of the Physical/Chemical Properties (8570-36)  
Self-Certification Statement for the Physical/Chemical Properties (8570-37)  
Proposed label (6 copies)  
Supporting study (3 copies, with Data Transmittal Document)

We have concluded that this regulatory action falls in PRIA II Category R300, for which a fee of \$1,365 is required. If the Agency concurs, please contact me at the e-mail address below.

Thank you for your consideration of this project. Please contact me if you have any questions.

Sincerely,

Rufus Bastian, President  
Source Dynamics LLC  
rbastianllc@cox.net

10039 E. Troon North Drive  
Scottsdale, AZ 85262

Tel. 480.502.9289

Fax 480.502.9268

44



## DATA TRANSMITTAL DOCUMENT

Name and Address of Submitter

Source Dynamics LLC  
10039 E. Troon North Drive  
Scottsdale, AZ 85262

Regulatory Action in Support of Which This Package is Submitted

Application for Pesticide Registration  
Tebuconazole 45 DF Fungicide, EPA File Symbol 82542-x

Transmittal Date

September 16, 2008

List of Submitted Studies (3 Copies of Each)

R. Bastian, "Tebuconazole 45 DF: Product Identity, Description of Materials, Manufacturing Process and Discussion of Impurities," Report No. SD0608 (September 15, 2008), 41 pages, OPPTS 830.1550, 830.1600, 830.1620 and 830.1670

Company Official:  
Company Name:  
Company Contact:

Rufus Bastian Signature: *Rufus Bastian*  
Source Dynamics LLC  
Rufus Bastian, President  
rbastianllc@cox.net  
telephone (480) 502-9289

10039 E. Troon North Drive  
Scottsdale, AZ 85262

Tel. 480.502.9289

Fax 480.502.9268

45



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, Collection Strategies Division (2822T), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the completed form to this address.

Certification with Respect to Citation of Data

Applicant's/Registrant's Name, Address, and Telephone Number  
Source Dynamics LLC  
10039 E. Troon North Drive  
Scottsdale, AZ 85262

EPA Registration Number/File Symbol  
82542-x

Active Ingredient(s) and/or representative test compound(s)  
tebuconazole

Date  
September 16, 2008

General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158)  
terrestrial crop use

Product Name  
Tebuconazole 45 DF Fungicide

**NOTE:** If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose). ☐

SECTION I: METHOD OF DATA SUPPORT (Check one method only)

I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose). ☐

I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used). ☒

SECTION II: GENERAL OFFER TO PAY

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements] I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA. ☒

SECTION III: CERTIFICATION

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature

*Rufus Bastian*

Date  
9/16/2008

Typed or Printed Name and Title  
Rufus Bastian, President

46



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**401 M Street, S.W.**  
**WASHINGTON, D.C. 20460**

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 1 hour per response for registration activities and 1 hour per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the completed form to this address.

**SUMMARY OF THE PHYSICAL/CHEMICAL PROPERTIES (PR Notice 98-1)**

1. PRODUCT NAME: Tebuconazole 45 DF Herbicide		2. Reg. No. 82542-x
3. COMPANY NAME: Source Dynamics LLC		4. SUBMISSION DATE: Sept. 15, 2008
5. FIRST SUBMISSION <input checked="" type="checkbox"/>	7. PESTICIDE TYPE: fungicide	10. REGISTRATION <input checked="" type="checkbox"/>
6. RESUBMISSION <input type="checkbox"/>		
8. FORMULATED MANUFACTURING-USE PRODUCT <input type="checkbox"/> or 9. END-USE PRODUCT <input checked="" type="checkbox"/>		11. REREGISTRATION <input type="checkbox"/>
13. PRODUCT MANAGER OR CHEMICAL REVIEW MANAGER #/NAME (IF KNOWN): M. Waller (21)		12. REREG CASE #
14. GUIDELINE REFERENCE NO.(GRN)/TITLE	15. VALUE or QUALITATIVE DESCRIPTION/METHOD(s) USED WHERE APPLICABLE AND REFERENCES	16. MRID or REPORT NO.

**Group B, Series 830-Physical and Chemical Properties (40 CFR 158.190)**

-6302	Color	tan (visual)	47038401
-6303	Physical State	solid (visual)	46608902
-6304	Odor	organic (sensory)	46608902
-6314	Oxidation/Reduction: Chemical Incompatibility	stable to metal ions and salts	46608902
-6315	Flammability/Flame Extension	not applicable; no flammable solvent	
-6316	Explosibility	does not explode	46838802
-6317	Storage Stability	stable >1 year at 25 degrees C (by chemical analysis)	46817801
-6319	Miscibility	not applicable; not intended for dilution in organic solvents	
-6320	Corrosion Characteristics	not corrosive to its packaging (HDPE) in 1 year (visual and gravimetric)	46817801
-6321	Dielectric Breakdown Voltage	not applicable; not intended for household use	
-7000	pH	7.2 (1% suspension) (pH probe)	46608902
-7100	Viscosity	not applicable; not a liquid	
-7300	Density/Relative Density/Bulk Density	33 - 39 lb/cu. ft.	46608902



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**1200 Pennsylvania Avenue, N.W.**  
**WASHINGTON, D.C. 20460**

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, Collection Strategies Division (2822T), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address.

**SELF-CERTIFICATION STATEMENT FOR THE  
 PHYSICAL/CHEMICAL PROPERTIES (PR NOTICE 98-1)**

Product Name: Tebuconazole 45 DF Herbicide

Reg. No./File Symbol No.  
 (if known) or Company No. 82542-x

**SELF-CERTIFICATION STATEMENT:**

I certify that the reported information on the "Summary Form" represents a true and accurate record of the test results of studies generated or owned by (Company Name): Punjab, Repar, BASF Sparks and that the values of the properties reported are reliable.

I further certify that such data were generated in substantial conformity with OPPTS Test Guideline Series 830 Product Properties, applicable to my product, and in effect at the time of submission.

As a condition of registration, EPA may, by order, (1) withdraw a pending registration, (2) suspend the registration of this product without opportunity for hearing, or (3) assess civil penalties provided for in section 14 of FIFRA for violations of section 12(a)(2)(N) of FIFRA without opportunity for hearing, if I have not submitted to EPA within thirty (30) days of receipt of a request by the Agency, or within a specified time agreed to by the Agency, test results of studies summarized in the "Summary Form."

As a condition of registration, EPA may, by order, (1) withdraw a pending registration, (2) suspend the registration of this product without opportunity for hearing, or (3) assess civil penalties provided for in section 14 of FIFRA for violations of sections 12(a)(2)(N), 12(a)(2)(Q), or 12(a)(2)(R) of FIFRA without opportunity for hearing, if I fail to provide to EPA within thirty (30) days of receipt of a notification of error, or within a specified time agreed to by the Agency, information that EPA determines is required to correct the error.

Type Applicant's Name: Rufus Bastian

Title: President, Source Dynamics LLC

Telephone No. 480-502-9289

Applicant's Signature:

*Rufus Bastian*

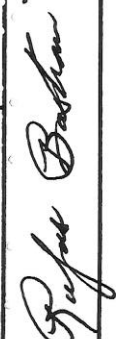
Date: September 16, 2008






**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

## DATA MATRIX

Date 9/15/2008		EPA Reg No./File Symbol 82542-x		Page 1 of 3	
Applicant's/Registrant's Name & Address Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale AZ 85262		Product Tebuconazole 45 DF Herbicide			
Ingredient tebuconazole					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
<b>PRODUCT CHEMISTRY</b>					
830.1550	product identification and disclosure of ingredients	NEW	Source Dynamics LLC	OWN	
830.1600	description of beginning materials	NEW	Source Dynamics LLC	OWN	
830.1620	description of manufacturing process	NEW	Source Dynamics LLC	OWN	
830.1670	discussion of formation of impurities	NEW	Source Dynamics LLC	OWN	
830.1700	preliminary analysis		not applicable; not a technical material		
830.1750	certification of limits	please see 8570-4	Source Dynamics LLC	OWN	
830.1800	enforcement analytical method	47038401	Repar Corp.	PAY	
		47016901	Repar Corp.	PAY	
		46608901	BASF Sparks	PAY	
830.6302	color	47038401	Repar	PAY	
830.6303	physical state	46608902	BASF Sparks	PAY	
830.6304	odor	46608902	BASF Sparks	PAY	
830.6313	stability to normal and elevated temperatures		not applicable; not a technical material		
Signature 			Name and Title: Rufus Bastian, President		
			Date: 9/15/2008		

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

## DATA MATRIX

Date 9/15/2008		EPA Reg No./File Symbol 82542-		Page 2 of 3	
Applicant's/Registrant's Name & Address Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale AZ 85262		Product Tebuconazole 45 DF Herbicide			
Ingredient: tebuconazole					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6314	oxidation / reduction: chemical incompatibility	46608902	BASF Sparks	PAY	
830.6315	flammability		not applicable; no flammable solvent		
830.6316	explosibility	46838802	Amide	PAY	
830.6317	storage stability	46817801	BASF Sparks	PAY	
830.6319	miscibility		not applicable; not a liquid		
830.6320	corrosion characteristics	46817801	BASF Sparks	PAY	
830.6321	dielectric breakdown voltage		not applicable; not for household use		
830.7000	pH	46608902	BASF Sparks	PAY	
830.7050	UV / visible absorption		not applicable; not a technical material		
830.7100	viscosity		not applicable; not a liquid		
830.7200	melting point		not applicable; not a technical material		
830.7220	boiling point		not applicable; not a technical material		
830.7300	density / relative density	46608902	BASF Sparks	PAY	
830.7370	dissociation constant in water		not applicable; not a technical material		
830.7570	octanol / water partition coefficient		not applicable; not a technical material		
Signature 			Name and Title: Rufus Bastian, President		
			Date: 9/15/2008		



**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

## DATA MATRIX

Date 9/15/2008	EPA Reg No./File Symbol 82542-		Page 3 of 3
Applicant's/Registrant's Name & Address Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale AZ 85262		Product Tebuconazole 45 DF Herbicide	
Ingredient tebuconazole			
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter
830.7840	water solubility		not applicable: not a technical material
830.7860	solubility in organic solvents		not applicable: not a technical material
830.7950	vapor pressure		not applicable: not a technical material
TOXICOLOGY			
870.1100 (81-1)	acute oral toxicity	46608903	BASF Sparks
870.1200 (81-2)	acute dermal toxicity	46608904	BASF Sparks
870.1300 (81-3)	acute inhalation toxicity	46608905	BASF Sparks
870.2400 (81-4)	acute eye irritation	46608906	BASF Sparks
870.2500 (81-5)	acute dermal irritation	46608907	BASF Sparks
870.2600 (81-6)	skin sensitization	46608908	BASF Sparks
Signature	Name and Title: Rufus Bastian, President		Date: 9/15/2008

# TEBUCONAZOLE 45 DF Fungicide

**ACTIVE INGREDIENT:**

Tebuconazole:  $\alpha$ -[2-(4-chlorophenyl)ethyl]- $\alpha$ -(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol ..... 45.0%

**INERT INGREDIENTS:** ..... 55.0%

**TOTAL** ..... 100.0%

**STOP – Read the label before use.**

**KEEP OUT OF REACH OF CHILDREN**

**WARNING**

**AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(TO THE USER: If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If inhaled</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>Note to Physician:</b> No specific antidote. Treat symptomatically. The compound does not cause any definite symptoms that would be diagnostic. Contact with the eyes may cause irritation.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For Emergency Medical Assistance, call the National Pesticide Information Center 1-800-858-7378.	

**Source Dynamics, LLC**  
10039 E. Troon North Drive  
Scottsdale, AZ 85262

**EPA Registration No. 84235-x**

**EPA Est. No.**

**Net Contents**

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### WARNING

Causes substantial but temporary eye injury. Harmful if swallowed, inhaled or absorbed through the skin. Prolonged frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes, and clothing. Avoid breathing spray mist.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):** Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA Chemical Resistant Category Selection Chart.

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

Remove and wash contaminated clothing before reuse. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENGINEERING CONTROLS STATEMENTS:** When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in WPS.

#### USER SAFETY RECOMMENDATIONS

**Users should:**

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to estuarine and marine invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

#### Pesticide Storage

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If container is leaking or material is spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with handling of this material. Dispose of pesticide as directed below. In spill or leak incidents, keep unauthorized people away.

#### Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

#### Container Disposal

Completely empty container into application equipment. Then dispose of liner in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### GENERAL INFORMATION

**Spray Volume:** Tebuconazole 45 DF may be applied in 50 gallons or more of spray solution per acre by ground spray equipment or in 15 gallons or more per acre by aircraft equipment except as noted under "REMARKS" for each crop. Increase spray volume as crop growth increases to ensure thorough coverage of the foliage and fruit. Check equipment calibration frequently. Complete coverage and uniform application are essential for the most effective results, especially when lower spray volumes are applied.

Aerial application is not allowed on Long Island, New York.

**Chemigation:** Do not apply this product through any type of irrigation system.

**Mixing:** Add recommended amount of Tebuconazole 45 DF to the spray tank while filling with water to the desired level. Maintain agitation while mixing. If other materials are added to the spray tank, be sure that the Tebuconazole 45 DF is thoroughly dispersed before other materials are added.

**Compatibility:** To determine the compatibility of Tebuconazole 45 DF with other mixing partners, use the following procedure:

Pour the recommended proportions of the products into a suitable container of water, mix thoroughly and allow to stand at least five (5) minutes. If the combination remains mixed or can be re-mixed readily, the mixture is considered physically compatible. For further information contact your local SOURCE DYNAMICS, LLC representative.

RECOMMENDED APPLICATIONS			
CROP	DISEASE	RATE OF TEBUCONAZOLE 45 DF	
Cherry Peach Nectarine	Brown rot ( blossom blight, fruit rot)	2 oz/100 gallons*	4 – 8 oz/acre**
Cherry	Leaf spot Powdery mildew		
Peach	Rust	2 oz/100 gallons	5 – 8 oz/acre

**Blossom blight:** Begin application at white bud on cherry or pink bud on peach and nectarine. Apply again at 50% bloom and at petal fall if conditions continue to be favorable for disease development.

**Fruit rot:** Begin application at two to three weeks before harvest and continue at 7-day intervals through the day of harvest. The blossom and fruit stages must be protected for optimum control of brown rot. If Tebuconazole 45 DF is applied during only one of these stages, another registered fungicide should be applied to the other stage to provide optimum protection. Additional cover sprays during the early postbloom period are also important for preventing quiescent fruit infections in sweet cherry and peach.

**Leaf spot:** Begin applications at petal fall or when first leaves unfold and continue applications at 7- to 14-day intervals. Applications should be made at 7-day intervals early in the growing season when terminal growth is rapid and/or under severe disease conditions. A postharvest application may be made to maintain control and reduce overwintering inoculum.

**Powdery mildew:** Follow leaf spot schedule until terminal growth ceases.

**Rust:** Begin applications after canker emergence and continue applications at 14-day intervals under severe disease conditions.

**GENERAL USE DIRECTIONS:**  
Tebuconazole 45 DF may be applied up to and including the day of harvest (0-day PHI). Do not apply more than 3 lb of product per acre per crop season.

Tebuconazole 45 DF is a sterol demethylation inhibitor (DMI) fungicide. It may be applied in tank mix or alternated (every other spray application) with a non-DMI (protectant) fungicide as a resistance management strategy. Do not mix Tebuconazole 45 DF with other DMI fungicides.

\* When using the 2 oz/100 gallon rate, use at least 4 oz of Tebuconazole 45 DF per acre.

\*\* The amount of Tebuconazole 45 DF required per acre will depend on tree size and volume of foliage present. The rate per acre is based on a standard of 400 gallons of dilute spray solution per acre for large trees. For smaller trees, multiply 2 oz times the number of 100 gallons of spray solution required to thoroughly wet, to the point of runoff, one acre of the trees being treated. For concentrate sprays, apply the same amount of product per acre as would be applied in a dilute spray based on tree size and foliage volume, but not less than 4 ounces of Tebuconazole 45 DF per acre. Apply 6 to 8 ounces per acre of Tebuconazole 45 DF when severe disease conditions exist.



RECOMMENDED APPLICATIONS		
CROP	DISEASE	RATE OF TEBUCONAZOLE 45 DF
Grape	Black rot	4 oz per acre
	Powdery mildew	

**Powdery mildew:** Apply in a preventive spray schedule. Make the first application of Tebuconazole 45 DF before bloom and continue applications using spray intervals of up to 21 days in low to moderate disease pressure. Use a 14-day schedule when disease pressure is severe.

**Black rot:**  
**Preventive Schedule:** Make the first application at 1 – 3 inches of new shoot growth and continue at 7- to 14-day intervals through 5° Brix stage or until veraison (berry coloring) is complete. Apply at 1-inch new shoot growth and at 7- to 14-day intervals on highly susceptible varieties or under severe disease conditions.  
**Post-Infection Schedule:** A post-infection schedule may be followed from 1-inch new shoot growth through 5° Brix stage. Apply within 72 hours after the beginning of an infection period. Tebuconazole 45 DF applications should not be closer than 7 days apart. Continue Tebuconazole 45 DF applications using the preventive schedule if the post-infection schedule is discontinued.

**Botrytis:** Tebuconazole 45 DF, applied in a powdery mildew spray schedule, will enhance the activity of registered fungicides used for control of Botrytis bunch rot. Applications must be made on a 14-day schedule for suppression of Botrytis.

**GENEREAL USE DIRECTIONS**  
Tebuconazole 45 DF may be applied up to 14 days before harvest. A maximum of 2 pounds of Tebuconazole 45 DF may be applied per acre per crop season. The minimum interval between applications is 7 days.

Tebuconazole 45 DF may be applied by ground only in the State of New York.

Apply product in sufficient water for thorough coverage of vines and fruit. Increase spray volume as vine growth increases.

Tebuconazole 45 DF is a sterol demethylation inhibitor (DMI) fungicide. It may be applied in tank mix or alternated (every other spray application) with a non-DMI (protectant) fungicide as a resistance management strategy. Do not mix Tebuconazole 45 DF with other DMI fungicides.

RECOMMENDED APPLICATIONS		
CROP	DISEASE	RATE OF TEBUCONAZOLE 45 DF
Banana Plantain	Black leaf streak	3.2 oz per acre
	Yellow sigatoka	

Apply specified dosage as a foliar spray in a minimum of 20 gallons of water per acre to assure thorough coverage of the plants. A spray oil recommended for use on banana or plantain should be utilized at 4.3 pints per acre in a tank mix with Tebuconazole 45 DF. Thoroughly mix Tebuconazole 45 DF in the spray solution prior to the addition of a spray oil. Make the first application before disease becomes established and repeat applications at 14-day intervals if necessary to maintain disease control.

Do not apply Tebuconazole 45 DF to non-bagged bananas. A maximum of 16 oz of Tebuconazole 45 DF may be applied per acre per harvest cycle. Tebuconazole 45 DF may be applied up to the day of harvest.

**OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES, RESERVOIRS, RIVERS, PERMANENT STREAMS, MARSHES OR NATURAL PONDS, ESTUARIES AND COMMERCIAL FISH PONDS.**

**Spray Drift Management:** The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.



**Buffer Zone Requirements:** For soil or foliar applications, do not apply by ground within 25 feet, or by air within 150 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.

**Recommendations for Aerial Applications:** The spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used, and must not exceed 75% of the wing span or rotor diameter.

**Importance of Droplet Size:** An important factor influencing drift is droplet size. Small droplets (<150 – 200 microns) drift to a greater extent than large droplets. Within typical equipment specifications, applications should be made to deliver the largest droplet spectrum that provides sufficient control and coverage. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure.

Spray should be released at the lowest possible height consistent with good pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.

**Wind Speed Restrictions:** Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. Do not apply when winds are greater than 15 mph and avoid gusty and windless conditions. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

**Restrictions During Temperature Inversions:** Do not make aerial or ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

**Airblast (Air Assist) Specific Recommendations for Tree Crops and Vineyards:** Airblast sprayers carry droplets into the canopy of trees/vines via a radially or laterally directed air stream. The following specific drift management practices should be followed:

- Adjust deflectors and aiming devices so that spray is directed only into the canopy.
- Block off upward pointed nozzles when there is no overhanging canopy.
- Use only enough air volume to penetrate the canopy and provide good coverage.
- Do not allow the spray to go beyond the edge of the cultivated area. Turn off sprayer when turning at end rows.
- Spray only inward, toward the orchard or vineyard, for applications to the outside rows.

**Runoff Management:** Do not cultivate within 10 feet of the aquatic areas to allow growth of a vegetative filter strip. When used on erodible soils, best management practices for minimizing runoff should be employed. Consult your local Soil Conservation Service for recommendations in your use area.

#### **ROTATIONAL CROPS**

Any crop not specified on this label may be planted into treated areas 120 days after last application.

### **IMPORTANT INFORMATION READ BEFORE USING PRODUCT**

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will

be refunded.

The Directions for Use of this product must be followed carefully. The Directions for Use of this product reflect the opinion of experts based on field use and tests. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SOURCE DYNAMICS LLC or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of SOURCE DYNAMICS LLC and Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SOURCE DYNAMICS LLC and Seller harmless for any claims relating to such factors.

SOURCE DYNAMICS, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SOURCE DYNAMICS LLC, and Buyer and User assume the risk of any such use. SOURCE DYNAMICS LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, SOURCE DYNAMICS LLC or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SOURCE DYNAMICS LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE, AT THE ELECTION OF SOURCE DYNAMICS LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT, OR COMPENSATION LIMITED TO DAMAGES NOT EXCEEDING THE FAIR MARKET PURCHASE PRICE, AND SHALL NOT INCLUDE INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

SOURCE DYNAMICS LLC and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by the duly authorized representative of SOURCE DYNAMICS LLC

10

82542-0

FILE SYMBOL	82542-0
REGISTRATION NO.	

**Do Not Write Comments,  
Formula, or Parts of Formula  
on This Envelope**

[illegible]

It shall be unlawful—for any person to use for his own advantage or to reveal, other than to the Secretary, or officials or employees of the United States Department of Agriculture or other Federal agencies, or to the courts in response to a subpoena, or to physicians, and in emergencies to pharmacists and other qualified persons, for use in the preparation of antidotes, in accordance with such directions as the Secretary may prescribe, any information relative to formulas of products acquired by authority of Section 4 of the "Federal Insecticide, Fungicide, and Rodenticide Act."

EPA Registration File No. 82542-9

Page \_\_\_\_\_ is not included in this copy.

Pages 61 through 62 are not included in this copy.

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The material not included contains the following type of information:

- ☐ Identity of product inert ingredients.
- ☐ Identity of product impurities.
- ☐ Description of the product manufacturing process.
- ☐ Description of quality control procedures.
- ☐ Identity of the source of product ingredients.
- ☐ Sales or other commercial/financial information.
- ☐ A draft product label.
- ☒ The product confidential statement of formula.
- ☐ Information about a pending registration action.
- ☐ FIFRA registration data.
- ☐ The document is a duplicate of page(s) \_\_\_\_\_.
- ☐ The document is not responsive to the request.
- ☐ Proprietary information pertaining to the chemical composition of an inert ingredient provided by the source of the ingredient.
- ☐ Attorney-Client Privilege.
- ☐ Claimed Confidential by submitter upon submission to the Agency.
- ☐ Internal Deliberative Information.

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\* The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.

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